INTERNATIONAL SEARCH REPORT



International Application No PCT 2005/001208

a. classification of subject matter IPC 7 G01J3/46 G01J3/50 A61C19/10 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G01J A61C IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT .Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° US 4 654 794 A (O'BRIEN JOHN K) 1-10,Х 21-31 31 March 1987 (1987-03-31) abstract; figure 1 column 1, lines 53-60 column 6, line 54 - column 7, line 12; claim 8 1-10, US 2003/190578 A1 (LEHMANN MARYANN) Χ 21 - 319 October 2003 (2003-10-09) abstract; figure 2 paragraphs [0011] -T00151 [0018] -[0019] paragraphs paragraphs [0036], [0045] -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. ° Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 1 Q 06. 2005 11 March 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Varelas, D

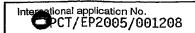
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C.(Continua Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 5 798 839 A (BERNER MARKUS ET AL) 25 August 1998 (1998-08-25) abstract; figure 1 column 3, lines 5-35 column 5, lines 10-36 column 8, lines 41-57	1-10, 21-31		
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.: 1-10, 21-31
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-10, 21-31

A dental shade measuring device and the corresponding method comprising illumination means for successively illuminating at least one part of a tooth with light of various spectral ranges a monochrome sensor sensitive to intensity of light coming from said tooth part means for converting the measurement signals into corrdinates of a measurement point in a shade space in which reference points are defined, corresponding to the present shades of a dental shade guide automatic shade search means for searching a shade corresponding to the reference point closest to the measurement point.

The technical problem to be solved by this group can be construed as how to free the evaluation of dental shade from the subjectivity part related to the practitioner.

2. claims: 11-20

A measuring instrument comprising a sensor and an illumination head provided with a plurality of light emitting sites linked to the light sources. The technical problem to be solved by this group can be construed as how to obtain a compact measuring instrument which can be used for the teeth located in the back part of the mouth.

INTERNATIONAL SEARON REI ORG

Cormation on patent family members

I	International Application No
	PCT 2005/001208

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4654794	Α	31-03-1987	NONE		
US 200319057	8 A1	09-10-2003	US US US US US US US WO	2002064751 A1 2002012895 A1 6305933 B1 6132210 A 5961324 A 5766006 A 6206691 B1 6210159 B1 6171296 A 9701308 A1	30-05-2002 31-01-2002 23-10-2001 17-10-2000 05-10-1999 16-06-1998 27-03-2001 03-04-2001 30-01-1997 16-01-1997
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